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MONOCLONAL ANTIBODY AGAINST SODIUM HYALURONATE ITS PRODUCTION

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ABSTRACT

PURPOSE: To produce the subject new antibody, produced by a fused cent or a cell, capable of producing an antibody, prepared by bonding a protein, etc., to sodium hyaluronate reduced in molecular weight and immunizing a mouse with the resultant substance to a cell of a myeloma and capable of specifically recognizing the sodium hyaluronate.

CONSTITUTION: A protein (e.g. hemocyanin) or a phospholipid (e.g. phosphatidylethanolamine) is introduced into sodium hyaluronate reduced in molecular weight to form a covalent combination, which is then used as an antigen and administered to immunize a BALB/C mouse therewith. Additional immunization is carried out to collect a cell of the spleen after the final immunization. The collected cell is fused to a cell of a murine myeloma in the presence of polyethylene glycol and then selectively cultured in an HAT culture medium to provide a hybridoma, which is further screened according to the enzyme-linked immunosorbent assay (ELISA), etc., to select a strain capable of producing an antibody having reactivity with sodium hyaluronate. The selected strain is cloned by a limiting dilution method and then cultured in a culture medium, etc., to afford the new monoclonal antibody against the sodium hyaluronate.

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